

Type IIb SN 2011fu: spectral and light curve evolution

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Abstract

Type IIb supernovae (SNe) are a subclass of core-collapse supernovae that appear to be a hybrid between SNe characterized by the presence of H in their spectra (Type II) and Type Ib/c SNe (those that do not exhibit H features in their spectra but possibly HeI). We present some preliminary results of the photometric and spectroscopic analysis of type IIb supernova 2011fu. In principle, the characteristics of SN 2011fu are pretty similar to those of canonical type IIb SNe, but its Bessel UBVRI and Sloan uriz light curves (LCs) present an early peak resembling the unique case of the well studied type IIb SN 1993J (Richmond et al. 1994, AJ, 107, 1022).